

Appl. No. 09/768,953
Amdt. Dated August 23, 2004
Reply to Office action of May 21, 2004
Attorney Docket No. P12877-US1
EUS/JP/04-2268

Amendments to the Claims:

This listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-40 (Canceled)

41. (New) A method of establishing quality of service (QoS) between a terminal and an end node in an IP network utilizing resource reservation, the method comprising the steps of:

connecting the terminal to the end node via an access node in the IP network;
determining parameters necessary to establish a specific QoS between the terminal and the end node;
determining whether the terminal is using resource reservation and if true, instructing the terminal to disable the resource reservation feature;
responsive to the instructions, the terminal sending a message to the end node to indicate that the terminal shall not use resource reservation;
changing the message prior to forwarding to the end node to indicate that resource reservation capabilities shall be used, wherein the message change includes the determined parameters, including the specific QoS and type of QoS mode, wherein the specific QoS and type of QoS mode is supported only between the access node and the end node; and
performing resource reservation between the access node and the end node utilizing a resource reservation proxy.

42. (New) The method of claim 41, further comprising the step of:
responding to the message, the end node sending a reply message to the terminal containing the quality of service that the end node will use.

43. (New) The method of claim 42, further comprising the steps of:

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changing the reply message to indicate that QoS will not be used; and
forwarding the message to the terminal.

44. (New) The method of claim 41, wherein changing the message prior to
forwarding to the end node further comprises resetting a QoS mode field from a not set
status to a set status.

45. (New) The method of claim 41, further comprising:
establishing an access bearer, with a specific level of service on a link level
between the terminal and the access node.

46. (New) The method of claim 41, wherein the proxy initiates resource
reservation between the access node and the end node by:

sending a path signaling towards the end node, the message including QoS and
QoS mode parameters;

the proxy then receiving resource reservation signaling messages sent from the
end node towards the terminal; and

the proxy responding to the resource reservation signaling messages as required
by protocol instead of forwarding the messages to the terminal.

47. (New) The method of claim 46, wherein sending the path signaling
message is performed by a node coupled to the IP network.

48. (New) The method of claim 41, wherein the message is a
TerminalCapabilitySet of H.245.

49. (New) The method of claim 41, wherein the QoS mode is identified by the
node in a TerminalCapabilitySet of H.245 from the reply message sent from the end
node to the terminal.

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50. (New) The method of claim 41, further comprising requesting from the proxy, specific quality of service between the access node and the terminal according to the QoS determined from the initial terminal message.

51. (New) A network node for routing calls and establishing quality of service (QoS) between a terminal and an end node in an IP network, wherein the IP network utilizes resource reservation signaling, the network node comprising:

a resource reservation proxy coupled to the network node having means for performing resource reservation between the access node and the end node; and

a functional entity resident on the network node having means for determining whether the terminal uses resource reservation protocol and if so, the functional entity further including:

means for instructing the terminal to operate without the resource reservation protocol; and

if the terminal sends a message to the end node indicating that the terminal does not support resource reservation,

means for changing the message to indicate support for resource reservation, the changed message including a specific QoS and type of QoS mode that will be supported only between the access node and the end node.

52. (New) The network node of claim 51, further comprising:

means for responding to the message, wherein the end node sends a reply message containing the quality of service mode that the end node will use.

53. (New) The network node of claim 52, further comprising:

means for changing the reply message from the end node to indicate that quality of service will not be used prior to forwarding the message to the terminal.

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54. (New) The network node of claim 51, wherein the means for changing the message prior to forwarding to the end node further comprises means for resetting a QoS mode field from a not set status to a set status.

55. (New) The network node of claim 51, wherein means for sending instructions to the terminal to operate without resource reservation further comprises:
means for sending an Authentication Control Function (ACF) signalling message of H.225/RAS from the node to the terminal.

56. (New) The network node of claim 51, wherein the QoS mode is identified by the node in a TerminalCapabilitySet message of H.245 from the end node towards the terminal.

57. (New) The network node according to claim 51, wherein the quality of service information is identified by the node in an OpenLogicalChannel message of H.245 sent from the terminal towards the end node.

58. (New) The network node according to claim 51, wherein the specific QoS is identified a TerminalCapabilitySet of H.245 message from the terminal towards the end node.

59. (New) The network node of claim 51, further comprising:
means for sending a request of quality of service message between the proxy and the end node, the message including the necessary parameters to support the request.

60. (New) The network node of claim 51, further comprising:
means for establishing an access bearer, with a specific quality of service on a link level, between the terminal and the access node.

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61. (New) The network node of claim 51, wherein resource reservation is initiated by the proxy, by sending a Path signaling message from the access node towards the end node the message including the necessary parameters for performing the resource reservation.

62. (New) A communication system comprising:

a network node for routing calls and establishing quality of service (QoS) between a terminal and an end node in an IP network, wherein the IP network utilizes resource reservation signaling, the network node comprising:

a resource reservation proxy coupled to the network node having means for performing resource reservation between the access node and the end node; and

a functional entity resident on the network node having means for determining whether the terminal uses resource reservation protocol and if so, the functional entity further including:

means for instructing the terminal to operate without the resource reservation protocol; and

if the terminal sends a message to the end node indicating that the terminal does not support resource reservation, means for changing the message to indicate support for resource reservation, the changed message including a specific QoS and type of QoS mode that will be supported only between the access node and the end node.

63. (New) The communication system of claim 62, wherein the network node further comprises:

means for responding to the message, wherein the end node sends a reply message containing the quality of service mode that the end node will use.

64. (New) The communication system of claim 63, wherein the network node further comprises:

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means for changing the reply message from the end node to indicate that quality of service will not be used and then forwarding the message to the terminal.

65. (New) The communication system of claim 62, wherein the means for changing the message prior to forwarding to the end node further comprises:

means for resetting a QoS mode field from a not set status to a set status.

66. (New) The communication system of claim 62, wherein means for sending instructions to the terminal to operate without resource reservation further comprises:

means for sending an ACF signalling message of H.225/RAS from the node to the terminal.

67. (New) The communication system of claim 62, wherein the QoS mode is identified by the node in a TerminalCapabilitySet message of H.245 from the end node towards the terminal.

68. (New) The communication system according to claim 62, wherein the quality of service information is identified by the node in an OpenLogicalChannel message of H.245 sent from the terminal towards the end node.

69. (New) The communication system according to claim 62, wherein the specific QoS is identified in the TerminalCapabilitySet of H.245 message from the terminal towards the end node.

70. (New) The communication system of claim 62, wherein the network node further comprises:

means for sending a request of quality of service message between the proxy and the end node, the message including the necessary parameters.

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71. (New) The communication system of claim 62, wherein the network node further comprises:

means for establishing an access bearer, with a specific quality of service on a link level, between the terminal and the access node.

72. (New) The communication system of claim 62, wherein resource reservation is initiated by the proxy, by sending a Path signaling message from the access node towards the end node, the message including the necessary parameters for performing the resource reservation.